at1110paper__practice__test (v15)

1. Factor the expression.
$$x^2 + 4x - 21$$

2. Expand the following expression into standard form.
$$(4x + 9)^2$$

3. Solve the equation.
$$9x^2 + 39x - 39 \ = \ 2x^2 - 5x - 4$$

4. Solve the equation with factoring by grouping.
$$20x^2 - 15x - 8x + 6 \ = \ 0$$

5. Solve the equation.

$$(4x - 9)(7x - 6) \ = \ 0$$

6. Expand the following expression into standard form.

$$(5x - 7)(5x + 7)$$

7. Factor the expression.

$$9x^2 - 25$$

8. Expand the following expression into standard form.

$$(5x + 6)(8x - 3)$$